

**RING MODE FORMING DEVICE****Publication number:** JP63016893**Publication date:** 1988-01-23**Inventor:** OKAMURA KAZUO; HISADA HIDEO; MARUO MASARU; MIYAMOTO ISAMU**Applicant:** KOMATSU MFG CO LTD**Classification:****- International:** **B23K26/073; B23K26/06;** (IPC1-7): B23K26/06**- european:** B23K26/073B**Application number:** JP19860158844 19860708**Priority number(s):** JP19860158844 19860708**Report a data error here****Abstract of JP63016893**

**PURPOSE:**To form a uniform ring mode on a laser beam by providing two condensing lenses at the inlet port side and outlet port side of a scope and making its optical axis coincident with the center axis in the longitudinal direction of the scope. **CONSTITUTION:**A laser beam 4 is passed through a condensing lens 2 and projected into the scope 1 subjected to a mirror finish. The laser beam 4 is then conformed with its multireflection by a cylinder 1a and cone shaped mirror 1 and forms an uniform ring mode 5 at the outlet port of the scope 1. The laser beam 4 passes a condensing lens 3, forming a ring mode 5 on the work face. With this device, an uniform rectangular heat source can be formed with the multireflection and composition inside the scope 1 of the beam even in the case of the beam of prior to the forming being uneven, and the stability of the formed beam becomes better.

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